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CLASSIFIED MESSAGE

TOP SECRET

ROUTING

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ORIG :
UNIT :
EXT :
DATE : 1 DECEMBER 1970

TO : SAC,ACIC,FTD,USAFE,PACAF,ARMY,DIA,NAVY,TOPOCOM, AIIS,544ARTW OFFUTT,SSO HAWAII,FICEUR,OPCEN

FROM: NPIC

CONF :

INFO :

ALSO SEND TO

3 DEC 70 22 49

PRECEDENCE					INITIALS
	DEFERRED	X	PRIORITY		
	ROUTINE		OPERATIONAL IMMEDIATE		INITIALS

UL 17132E

TO INFO CITE

TOP SECRET. TALENT KEYHOLE CHANNELS. CITE NPIC 9929

SUBJECT: CAMERA INFORMATION FOR MISSION 1112-1.

1. THE MISSION UTILIZED TWO PAN CAMERAS, FOUR HORIZON CAMERAS, DUAL STELLAR CAMERAS AND AN INDEX CAMERA.

2. CAMERA DATA

A. MAIN UNITS

FOCAL LENGTHS (MM)

	PAN CAMERAS	PORT HORIZONS	STBD HORIZONS
FWD	609.597	55.000	55.186
AFT	609.608	55.179	55.193

FILTERS

PAN FWD	PRIMARY	W-25 (0.037)
PAN FWD	ALTERNATE	W-25 (0.040)
PAN AFT	PRIMARY	W-23A(0.037)
PAN AFT	ALTERNATE	W-23A(0.037)

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TO INFO CITE

FWD STBD HORIZON W-25

FWD PORT HORIZON W-25

AFT STBD HORIZON W-25

AFT PORT HORIZON W-25

APERTURE

STBD HORIZON F/8

PORT HORIZON F/6.3

FILM

FWD 3414(3404)3414

AFT 3414(3404)3414

DYNAMIC RESOLUTION

FWD HIGH CONTRAST 318

FWD LOW CONTRAST 191

AFT HIGH CONTRAST 289

AFT LOW CONTRAST 188

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TO INFO CITE

UNIT NUMBER FWD 301 AFT 300

B. DISIC UNIT NO.8

	PORT STELLAR	STBD STELLAR	INDEX
FOCAL LENGTHS (MM)	75.953	75.918	76.643
FILTER (WRATTEN)	None	None	W-12
EXPOSURE (SEC)	1.5	1.5	0.002
FILM	3401	3401	3400

3. LENS DISTORTION (PIN CUSHION) (MM)

A. MAIN UNITS

ANGLE OFF AXIS (DEG)	3	2	1	0	359	358	357
FWD	.002	.002	0	0	0	.001	.002
AFT	.002	.002	0	0	0	0	.001

B. HORIZON CAMERA DISTORTION

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TO INFO CITE

	FWD PORT	FWD STBD	AFT PORT	AFT STBD
RADIAL 10 DEG	.01	.01	.01	.01
20 DEG	.05	.03	.03	.04
TANGENTIAL	.006	.01	.016	.018

4. CAMERA ANGLES

A. ANGLE BETWEEN PAN CAMERAS 30 DEG 37 MIN 16.02 SEC

B. DEPRESSION ANGLES BETWEEN HORIZONS AND PAN CAMERAS

FWD PORT 15 DEG 18 MIN 13.24 SEC

FWD STBD 14 DEG 59 MIN 1.51 SEC

AFT PORT 15 DEG 19 MIN 46.07 SEC

AFT STBD 14 DEG 14 MIN 47.15 SEC

C. ANGLES BETWEEN STELLAR AND INDEX CAMERA

STBD STELLAR AND INDEX 99 DEG 59 MIN 42.1 SEC

PORT STELLAR AND INDEX 99 DEG 58 MIN 04.9 SEC

5. TIMING MARKS

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TO INFO CITE

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATA

PASSES	REF LEVEL	AMP LEVEL
1D thru 4D,57D,58D	6	8
5D thru 7D,16D,55D, 56D	5	8
9A,10D,20D thru 27D	5	9
35D thru 40D	4	7
48D	7	7
52D,54D	4	8
70D thru 79D	4	9
85D	6	10
86D thru 90D	5	10
91D	4	10
102D,103D	6	12

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	ROUTINE		OPERATIONAL IMMEDIATE	INITIALS

TO INFO CITE

FOR ALL PASSES PRIMARY PERIOD 4538 SECONDS, SECONDARY PERIOD 2620, SECONDARY RAMP FACTOR 0.049550

7. PROGRAM TIME DATA

PASS	CAMERA ON TIME (ZULU TIME) DAY	HR	MIN	SEC	PROGRAM ON TIME UP RAMP SEC	PROGRAM DURATION SEC
1D	18	22	54	56	1851	40
3D	19	01	51	19	1819	50
4D	19	03	20	26	1857	87
5D1	19	04	48	54	1856	108
5D2	19	04	53	13	2115	150
6D1	19	06	19	04	1456	97
6D2	19	06	21	16	1588	80
6D3	19	06	22	59	1690	132
7D1	19	07	46	03	1366	61
7D2	19	07	47	33	1455	182

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ROUTING

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PRECEDENCE					INITIALS
		DEFERRED		PRIORITY	
		ROUTINE		OPERATIONAL IMMEDIATE	INITIALS

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TO INFO CITE

PASS	CAMERA ON TIME (ZULU TIME) DAY	HR	MIN	SEC	PROGRAM ON TIME UP RAMP SEC	PROGRAM DURATION SEC
7D3	19	07	51	56	1718	199
9AE	19	10	23	08	169	57
10D	19	12	23	56	2107	217
16D	19	21	10	13	1824	50
20D	20	02	57	31	1427	61
21D1	20	04	28	02	1551	157
21D2	20	04	31	02	1731	48
22D	20	05	57	49	1631	93
23D1	20	07	23	50	1486	240
23D2	20	07	29	43	1839	139
24D	20	08	53	33	1563	88
27D	20	13	23	41	1848	36
35D	21	01	06	03	2316	61

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PRECEDENCE				
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	ROUTINE		OPERATIONAL IMMEDIATE	INITIALS

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TO INFO CITE

PASS	CAMERA ON TIME (ZULU TIME) DAY	HR	MIN	SEC	PROGRAM ON TIME UP RAMP SEC	PROGRAM DURATION SEC
37D	21	04	04	55	2282	248
38D	21	05	36	13	1942	164
39D1	21	07	03	07	1838	96
39D2	21	07	05	48	2000	80
39D3	21	07	07	54	2126	134
40D	21	08	31	48	1841	276
48D	21	20	26	24	2184	60
52D	22	02	13	28	1750	60
54D	22	05	14	13	1966	227
55D1	22	06	41	00	1862	97
55D2	22	06	45	30	2132	85
56D	22	08	13	26	2095	89
57D1	22	09	38	01	1858	36

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PRECEDENCE		DEFERRED		PRIORITY	INITIALS
		ROUTINE		OPERATIONAL IMMEDIATE	INITIALS

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TO INFO CITE

PASS	CAMERA ON TIME (ZULU TIME) DAY	HR	MIN	SEC	PROGRAM ON TIME UP RAMP 16 SEC	PROGRAM DURATION 9 SEC
57D2	22	09	41	50	2087	72
58D	22	11	13	02	2246	37
70D1	23	04	47	56	1963	61
70D2	23	04	49	49	2076	307
71D1	23	06	20	42	2215	80
71D2	23	06	24	19	2432	144
72D1	23	07	50	25	2280	115
72D2	23	07	54	45	2540	49
74D	23	10	50	39	2457	151
79D	23	18	11	51	2296	49
85D	24	02	58	25	2149	50
86D1	24	04	28	32	2142	169
86D2	24	04	32	33	2383	49

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PRECEDENCE

	DEFERRED		PRIORITY	INITIALS
	ROUTINE		OPERATIONAL IMMEDIATE	INITIALS

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TO INFO CITE

PASS	CAMERA ON TIME (ZULU TIME) DAY	HR	MIN	SEC	PROGRAM ON TIME UP RAMP SEC	PROGRAM DURATION SEC
*87D1	24	05	58	47	2243	115
*87D2	24	06	02	33	2470	145
88D1	24	07	28	59	2341	108
88D2	24	07	32	17	2539	74
90D1	24	10	21	56	2092	37
90D2	24	10	30	26	2603	47
90D3	24	10	35	25	2902	56
91D	24	12	01	36	2760	90
102D	25	04	06	51	2309	44
103D1	25	05	32	40	2148	71
103D2	25	05	37	38	2447	120

8. TIME CORRELATION (MILLISECONDS)

*AFT ONLY

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PRECEDENCE				
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TO INFO CITE

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
9	180573.397	37212.4123	---
16	219390.960	76029.9709	.004
25	265599.752	35838.7574	.005
32	304415.598	74654.5986	.005
41	350692.162	34531.1568	.006
48	389590.640	73429.6297	.005
57	435784.526	33223.5094	.006
64	474692.209	72131.1870	.005
73	520865.947	31904.9184	.007
81	28187.731	76097.6079	.005
89	69144.939	30654.8097	.006
106	159762.609	34872.4654	.014

NOTE: ALL DIFFERENCE VALUES ARE PLUS.

25X1

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